

EV74803319102

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

**(19) World Intellectual Property Organization
International Bureau**



**(43) International Publication Date
6 May 2005 (06.05.2005)**

PCT

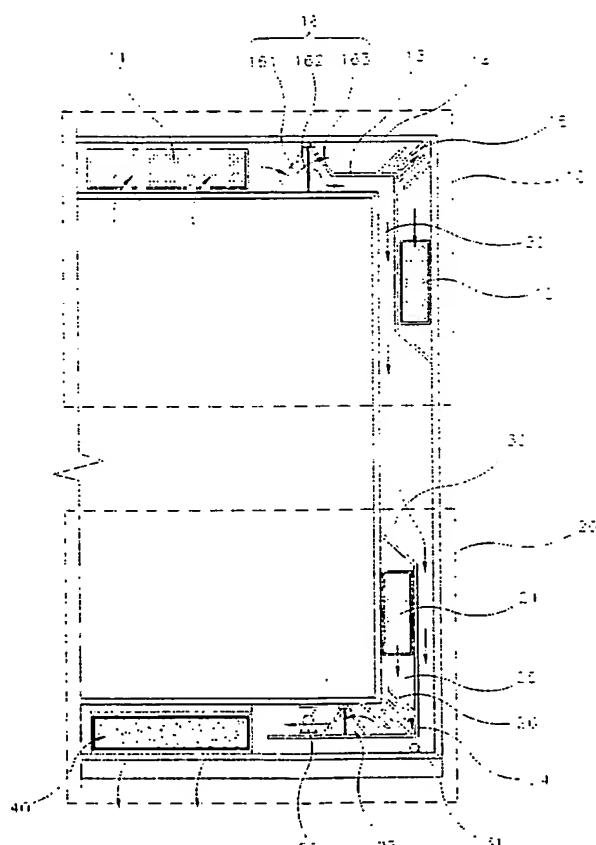
(19) International Publication Number
WO 2005/040540 A1

(51) International Patent Classification ⁷ :	E06B 7/02	AT. AU. AZ. BA. BB. BG. BR. BW. BY. BZ. CA. CI. CN. CO. CR. CU. CZ. DE. DK. DM. DZ. EC. EE. EG. ES. FI. GB. GI. GE. GH. GM. HR. HU. ID. IL. IN. IS. JP. KE. KG. KP. KZ. LC. LK. LR. LS. LT. LU. LV. MA. MD. MG. MK. MN. MW. MX. MZ. NA. NI. NO. NZ. OM. PG. PH. PL. PT. RO. RU. SC. SD. SE. SG. SK. SL. SY. TJ. TM. TN. TR. TT. TZ. UA. UG. US. UZ. VC. VN. YU. ZA. ZM. ZW.
(21) International Application Number:	PCT/KR2004/002725	
(22) International Filing Date: 26 October 2004 (26.10.2004)		
(25) Filing Language:	English	
(26) Publication Language:	English	
(30) Priority Data:		
10-2003-0076071 29 October 2003 (29.10.2003) KR		
(71) Applicant and		
(72) Inventor: LEE, Byung-su [KR/KR]; 48 Myeongnyundong, Wonju-si, Gangwon-do 220-040 (KR).		
(74) Agent: L & K PATENT FIRM; 701. Daekun Bldg., 822-5 Yeoksam-Dong, Gangnam-Gu, Seoul 135-080 (KR).		
(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE. AG. AL. AM.	Published: — with international search report	

Published:
— *with international search report*

[Continued on next page]

(54) Title: AUTOMATIC AIR PURIFYING WINDOWS



(57) Abstract: An automatic air-purifying window automatically purifies polluted indoor air while exhibiting general inherent functions of the window. The automatic air-purifying window comprises a window and a window stile for fixing the window. The window stile comprises a discharge part, an induction part, and an indoor air circulation passageway. The discharge part includes an indoor air induction port, an upper guide member to guide air current induced from the indoor air induction port, and an indoor air discharge port to discharge some portion of the indoor air from the indoor air induction port to the outside. The induction part includes an outdoor air induction port, a lower guide member to guide air current induced from the outdoor air induction port, a purification cartridge, a light-transmission portion, and a purified air discharge port. With such a construction, polluted air within the room can be not only automatically purified, but also discharged to the outside without opening the window while purifying air induced from the outside, thereby maintaining fresh indoor air.

WO 2005/040540 A1



For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

25

